

Applicant: Kwan-suk Yang
Application No.: 10/534,732

REMARKS/ARGUMENTS

After the foregoing Amendment, Claims 1-5, 7, 9 and 15-19 are currently pending in this application. Claims 6, 8 and 10-14 have been canceled without prejudice or disclaimer. Claims 1, 2 and 4 have been amended and new claims 15-19 have been added to more distinctly claim subject matter which the Applicant regards as the invention. Applicant submits that no new matter has been introduced into the application by these amendments.

Objections to the Specification

The Examiner objected to the specification because Abstract exceeds 150 words. The Abstract has been amended herewith. The withdrawal of the objection to the specification is respectfully requested.

Claim Rejections - 35 USC §102(b) and 35 USC §103(a)

Claims 1, 2, 5, 7, 11 and 13 stand rejected under 35 U.S.C. §102(b) as being anticipated by JP 60-250312, (hereinafter "JP '312"). Claims 3, 4, 6, 8-10, 12 and 14 stand rejected under 35 U.S.C. §103(a) as being unpatentable over JP '312.

With respect to claim 1, claims 1 as presently amended recites an optical device receiving member including an optical device receiving portion, an optical fiber receiving portion, a contact hole, a slit and a projection portion. The projection

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portion is extended lengthwise from a portion of a distal end of the optical device receiving portion and inserted into an insertion groove formed on a substrate of the optical transceiver module for installing the optical contact module to the optical transceiver module.

For connecting the optical fiber to the optical transceiver module, the optical device receiving portion is installed to the substrate and a light emitting diode is inserted into the optical device receiving portion. Next, an optical fiber is inserted into the through-hole of the optical fiber fixing cap 10, which is in turn coupled to the optical device receiving member. If the fastening means is a screw formed on the optical device receiving member and the optical fiber fixing cap, as the optical fiber fixing cap rotates, the optical device receiving member also rotates.

When the optical fiber fixing cap is coupled to the optical device receiving member, the projection portion, as it is inserted into the insertion groove of the substrate of the optical transceiver module, prevents the optical device receiving portion from rotating so that the installation of the optical fiber fixing cap is easier and a breakage or damage to the optical fiber can be avoided during the installation process. The present invention discloses as follows:

The optical transmitter module case 320 comprises an exterior case 322 and a cover 321. For the connection of the optical fiber, a substrate 130 of the optical transmitter module and the optical device receiving member 20 are first installed on the exterior case 322, then an O-ring 120 is fitted and the cover 321 is placed. At this moment, a light emitting device 132 is inserted into the optical device receiving

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portion 21 of the optical device receiving member 20. Further, since the projection portion 24 formed on the optical device receiving member 20 is inserted into an insertion groove 134 formed in the substrate 130 to be installed within the exterior case 322, as shown in FIGS. 8a and 9a, the optical device receiving member 20 does not rotate when the optical fiber fixing cap 10 is rotated to be fastened to the optical device receiving member 20.

(See paragraph 0068, Emphasis added).

JP '312 fails to disclose the projection portion for installing the optical contact module to the optical transceiver module. JP '312 discloses an optical fiber connector comprising a receptacle and a coupling nut. The receptacle has a cylindrical fastening part for connection to the nut and a mounting part 62 for a semiconductor element 8. Unlike the Examiner's assertion that the member '62' of JP '312 corresponds to the projection portion of the present invention, the mounting part '62' corresponds to the optical device receiving portion, not the projection portion.

The mounting part '62' is for mounting a semiconductor element, such as a light emitting diode or a pin diode, to be connected to the optical fiber which is installed through the nut and the cylindrical fastening part, as shown in Figures 3 and 4 of JP '312. There is no projection portion extending from the mounting part '62' to be inserted into a groove of an optical transceiver module in JP '312.

As shown in Figure 2 of JP '312, the mounting part '62' has a cylindrical shape. Therefore, as the nut is coupled to the fastening part, the receptacle will

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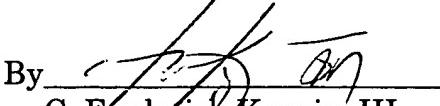
rotate and the optical fiber will also rotate since a screw 61e is formed on the inner surface of the fastening part to firmly grasp the optical fiber. The projection portion of the present invention solves such problem because the projection portion prevents such rotation of the optical device receiving member.

Since JP '312 fails to disclose the projection portion extending from the optical device receiving portion, claim 1 and its dependent claims are neither anticipated by nor obvious over JP'312.

In view of the foregoing amendment and remarks, Applicant respectfully submits that the present application, including claims 1-5, 7, 9 and 15-19, is in condition for allowance and a notice to that effect is respectfully requested.

Respectfully submitted,

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CFK/YBH/djw
Enclosure